

# RADIO TEST REPORT

## Test Report No. 15230055H-C-R1

|                     |                          |
|---------------------|--------------------------|
| Customer            | G-Printec, Inc.          |
| Description of EUT  | Card Printer             |
| Model Number of EUT | CX-7650                  |
| FCC ID              | 2AL3XG4S002              |
| Test Regulation     | FCC Part 15 Subpart C    |
| Test Result         | Complied                 |
| Issue Date          | March 18, 2025           |
| Remarks             | Frequency Tolerance only |

**Representative test engineer**Junki Nagatomi  
Engineer**Approved by**Akihiko Maeda  
Leader

CERTIFICATE 5107.02

- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.
- ☒ There is no testing item of "Non-accreditation".

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- For test report(s) referred in this report, the latest version (including any revisions) is always referred.

## **REVISION HISTORY**

### **Original Test Report No. 15230055H-C**

This report is a revised version of 15230055H-C. 15230055H-C is replaced with this report.

| Revision     | Test Report No. | Date           | Page Revised Contents                                                                  |
|--------------|-----------------|----------------|----------------------------------------------------------------------------------------|
| - (Original) | 15230055H-C     | March 17, 2025 | -                                                                                      |
| 1            | 15230055H-C-R1  | March 18, 2025 | p.9 Corrected the cable No. of the AC Cable in the List of Cables Used from '4' to '1' |

## Reference: Abbreviations (Including words undescribed in this report)

|                |                                                                 |         |                                                     |
|----------------|-----------------------------------------------------------------|---------|-----------------------------------------------------|
| A2LA           | The American Association for Laboratory Accreditation           | ICES    | Interference-Causing Equipment Standard             |
| AC             | Alternating Current                                             | IEC     | International Electrotechnical Commission           |
| AFH            | Adaptive Frequency Hopping                                      | IEEE    | Institute of Electrical and Electronics Engineers   |
| AM             | Amplitude Modulation                                            | IF      | Intermediate Frequency                              |
| Amp, AMP       | Amplifier                                                       | ILAC    | International Laboratory Accreditation Conference   |
| ANSI           | American National Standards Institute                           | ISED    | Innovation, Science and Economic Development Canada |
| Ant, ANT       | Antenna                                                         | ISO     | International Organization for Standardization      |
| AP             | Access Point                                                    | JAB     | Japan Accreditation Board                           |
| ASK            | Amplitude Shift Keying                                          | LAN     | Local Area Network                                  |
| Atten., ATT    | Attenuator                                                      | LIMS    | Laboratory Information Management System            |
| AV             | Average                                                         | MCS     | Modulation and Coding Scheme                        |
| BPSK           | Binary Phase-Shift Keying                                       | MRA     | Mutual Recognition Arrangement                      |
| BR             | Bluetooth Basic Rate                                            | N/A     | Not Applicable                                      |
| BT             | Bluetooth                                                       | NIST    | National Institute of Standards and Technology      |
| BT LE          | Bluetooth Low Energy                                            | NS      | No signal detect.                                   |
| BW             | BandWidth                                                       | NSA     | Normalized Site Attenuation                         |
| Cal Int        | Calibration Interval                                            | NVLAP   | National Voluntary Laboratory Accreditation Program |
| CCK            | Complementary Code Keying                                       | OBW     | Occupied Band Width                                 |
| Ch., CH        | Channel                                                         | OFDM    | Orthogonal Frequency Division Multiplexing          |
| CISPR          | Comite International Special des Perturbations Radioelectriques | P/M     | Power meter                                         |
| CW             | Continuous Wave                                                 | PCB     | Printed Circuit Board                               |
| DBPSK          | Differential BPSK                                               | PER     | Packet Error Rate                                   |
| DC             | Direct Current                                                  | PHY     | Physical Layer                                      |
| D-factor       | Distance factor                                                 | PK      | Peak                                                |
| DFS            | Dynamic Frequency Selection                                     | PN      | Pseudo random Noise                                 |
| DQPSK          | Differential QPSK                                               | PRBS    | Pseudo-Random Bit Sequence                          |
| DSSS           | Direct Sequence Spread Spectrum                                 | PSD     | Power Spectral Density                              |
| EDR            | Enhanced Data Rate                                              | QAM     | Quadrature Amplitude Modulation                     |
| EIRP, e.i.r.p. | Equivalent Isotropically Radiated Power                         | QP      | Quasi-Peak                                          |
| EMC            | ElectroMagnetic Compatibility                                   | QPSK    | Quadri-Phase Shift Keying                           |
| EMI            | ElectroMagnetic Interference                                    | RBW     | Resolution Band Width                               |
| EN             | European Norm                                                   | RDS     | Radio Data System                                   |
| ERP, e.r.p.    | Effective Radiated Power                                        | RE      | Radio Equipment                                     |
| EU             | European Union                                                  | RF      | Radio Frequency                                     |
| EUT            | Equipment Under Test                                            | RMS     | Root Mean Square                                    |
| Fac.           | Factor                                                          | RSS     | Radio Standards Specifications                      |
| FCC            | Federal Communications Commission                               | Rx      | Receiving                                           |
| FHSS           | Frequency Hopping Spread Spectrum                               | SA, S/A | Spectrum Analyzer                                   |
| FM             | Frequency Modulation                                            | SG      | Signal Generator                                    |
| Freq.          | Frequency                                                       | SVSWR   | Site-Voltage Standing Wave Ratio                    |
| FSK            | Frequency Shift Keying                                          | TR      | Test Receiver                                       |
| GFSK           | Gaussian Frequency-Shift Keying                                 | Tx      | Transmitting                                        |
| GNSS           | Global Navigation Satellite System                              | VBW     | Video BandWidth                                     |
| GPS            | Global Positioning System                                       | Vert.   | Vertical                                            |
| Hori.          | Horizontal                                                      | WLAN    | Wireless LAN                                        |

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## **SECTION 1: Customer Information**

|                  |                                                                                              |
|------------------|----------------------------------------------------------------------------------------------|
| Company Name     | G-Printec, Inc.                                                                              |
| Address          | Kawasaki Tech Center 5F, 580-16 Horikawacho, Saiwai-ku Kawasaki-shi kanagawa 212-0013, Japan |
| Telephone Number | +81-44-540-3242                                                                              |
| Contact Person   | Daisuke Kamiwano                                                                             |

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing

## **SECTION 2: Equipment Under Test (EUT)**

### **2.1 Identification of EUT**

|               |                                                                                            |
|---------------|--------------------------------------------------------------------------------------------|
| Description   | Card Printer                                                                               |
| Model Number  | CX-7650                                                                                    |
| Serial Number | Refer to SECTION 4.2                                                                       |
| Condition     | Engineering prototype<br>(Not for Sale: This sample is equivalent to mass-produced items.) |
| Modification  | No Modification by the test lab                                                            |
| Receipt Date  | March 12, 2025                                                                             |
| Test Date     | March 14, 2025                                                                             |

### **2.2 Product Description**

#### **General Specification**

|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| Rating                | AC 100 V to 120 V, 3.5 A, 50 / 60 Hz<br>AC 220 V to 240 V, 1.6 A, 50 / 60 Hz |
| Operating Temperature | +15 deg. C to +30 deg. C                                                     |

The EUT has following similar model:

| Model No.     | Difference from the base model                |
|---------------|-----------------------------------------------|
| CX-7650 (EUT) | -                                             |
| CX-D90H       | External enclosure color, Shape of front door |
| K65           | External enclosure color                      |

Although the model names differ (CX-7650, CX-D90H, and K65), the electrical structure, safety features, and EMC characteristics are identical across all three models. The only difference lies in the external enclosure.

#### **Radio Specification**

|                        |             |
|------------------------|-------------|
| Equipment Type         | Transmitter |
| Frequency of Operation | 13.56 MHz   |
| Type of Modulation     | ASK         |

### **SECTION 3: Test specification, procedures & results**

#### **3.1 Test Specification**

|                    |                                                                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Specification | FCC Part 15 Subpart C<br>The latest version on the first day of the testing period                                                                                        |
| Title              | FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators<br>Section 15.207 Conducted limits<br>Section 15.225 Operation within the band 13.110-14.010 MHz. |

#### **3.2 Procedures and results**

| Item                | Test Procedure                                       | Specification              | Worst margin | Results  | Remarks  |
|---------------------|------------------------------------------------------|----------------------------|--------------|----------|----------|
| Frequency Tolerance | <FCC><br>ANSI C63.10:2013<br>6 Standard test methods | <FCC><br>Section 15.225(e) | See data     | Complied | Radiated |
|                     | <ISED><br>RSS-Gen 6.11, 8.11                         | <ISED><br>RSS-210 B.6 (b)  |              |          |          |

Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.

##### **FCC Part 15.31 (e)**

This EUT provides stable voltage constantly to RF Module regardless of input voltage.

Therefore, this EUT complies with the requirement.

However, the supply voltage was varied and tested at 85 % and 115 % of the nominal rated supply voltage during frequency tolerance test according to Section 15.225(e).

##### **FCC Part 15.203 Antenna requirement**

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

#### **3.3 Addition to standard**

No addition, exclusion nor deviation has been made from the standard.

### 3.4 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.  
Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor  $k = 2$ .

#### Frequency Tolerance

| Item                                                             | Unit | Calculated Uncertainty (+/-) |
|------------------------------------------------------------------|------|------------------------------|
| Frequency Readout (Frequency counter)                            | ppm  | 0.67                         |
| Frequency Readout (Spectrum analyzer frequency readout function) | ppm  | 2.13                         |

### 3.5 Test Location

UL Japan, Inc. Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan

Telephone: +81-596-24-8999

\*A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

ISED Lab Company Number: 2973C / CAB identifier: JP0002

| Test site                  | Width x Depth x Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Other rooms            | Maximum measurement distance |
|----------------------------|----------------------------|------------------------------------------------------------------|------------------------|------------------------------|
| No.1 semi-anechoic chamber | 19.2 x 11.2 x 7.7          | 7.0 x 6.0                                                        | No.1 Power source room | 10 m                         |
| No.2 semi-anechoic chamber | 7.5 x 5.8 x 5.2            | 4.0 x 4.0                                                        | -                      | 3 m                          |
| No.3 semi-anechoic chamber | 12.0 x 8.5 x 5.9           | 6.8 x 5.75                                                       | No.3 Preparation room  | 3 m                          |
| No.3 shielded room         | 4.0 x 6.0 x 2.7            | N/A                                                              | -                      | -                            |
| No.4 semi-anechoic chamber | 12.0 x 8.5 x 5.9           | 6.8 x 5.75                                                       | No.4 Preparation room  | 3 m                          |
| No.4 shielded room         | 4.0 x 6.0 x 2.7            | N/A                                                              | -                      | -                            |
| No.5 semi-anechoic chamber | 6.0 x 6.0 x 3.9            | 6.0 x 6.0                                                        | -                      | -                            |
| No.5 measurement room      | 6.4 x 6.4 x 3.0            | 6.4 x 6.4                                                        | -                      | -                            |
| No.6 shielded room         | 4.0 x 4.5 x 2.7            | 4.0 x 4.5                                                        | -                      | -                            |
| No.6 measurement room      | 4.75 x 5.4 x 3.0           | 4.75 x 4.15                                                      | -                      | -                            |
| No.7 shielded room         | 4.7 x 7.5 x 2.7            | 4.7 x 7.5                                                        | -                      | -                            |
| No.8 measurement room      | 3.1 x 5.0 x 2.7            | 3.1 x 5.0                                                        | -                      | -                            |
| No.9 measurement room      | 8.8 x 4.6 x 2.8            | 2.4 x 2.4                                                        | -                      | -                            |
| No.10 shielded room        | 3.8 x 2.8 x 2.8            | 3.8 x 2.8                                                        | -                      | -                            |
| No.11 measurement room     | 4.0 x 3.4 x 2.5            | N/A                                                              | -                      | -                            |
| No.12 measurement room     | 2.6 x 3.4 x 2.5            | N/A                                                              | -                      | -                            |
| Large Chamber              | 16.9 x 22.1 x 10.17        | 16.9 x 22.1                                                      | -                      | 10 m                         |
| Small Chamber              | 5.3 x 6.69 x 3.59          | 5.3 x 6.69                                                       | -                      | -                            |

### 3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.

## SECTION 4: Operation of EUT during testing

### 4.1 Operating Mode(s)

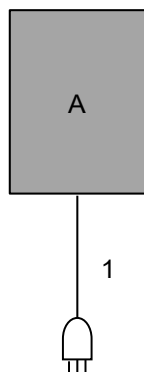
The mode is used:

| Test mode                                                                                                                                                                                                            | Remarks  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1) Transmitting mode (Tx)                                                                                                                                                                                            | Mod. off |
| The EUT was operated in a manner similar to typical use during the tests.                                                                                                                                            |          |
| *Power of the EUT was set by the software as follows;<br>Software: 1) T015-001 (Tx)<br>(Date: 2024.03 19, Storage location: EUT memory)                                                                              |          |
| *This setting of software is the worst case.<br>Any conditions under the normal use do not exceed the condition of setting.<br>In addition, end users cannot change the settings of the output power of the product. |          |
| Justification: The system was configured in typical fashion (as a user would normally use it) for testing.                                                                                                           |          |

| Test Item           | Operating mode |
|---------------------|----------------|
| Frequency Tolerance | 1)             |

| Frequency Tolerance                                                                  |                                                                                                                   |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Temperature                                                                          | -20 deg. C to +50 deg. C, Step 10 deg. C                                                                          |
| Voltage                                                                              | Normal Voltage AC 120 V<br>Maximum Voltage AC 138 V (AC 120 V +15 %)<br>Minimum Voltage AC 102 V (AC 120 V -15 %) |
| *This EUT provides stable voltage constantly to RF Part regardless of input voltage. |                                                                                                                   |

## 4.2 Configuration and peripherals



AC 120 V / 60 Hz  
With PE

\* Cabling and setup were taken into consideration and test data was taken under worse case conditions.

### Description of EUT and Support Equipment

| No. | Item         | Model number | Serial Number | Manufacturer    | Remark |
|-----|--------------|--------------|---------------|-----------------|--------|
| A   | Card Printer | CX-7650      | ES1-2         | G-Printec, Inc. | EUT    |

### List of Cables Used

| No. | Name     | Length (m) | Shield     |            | Remark  |
|-----|----------|------------|------------|------------|---------|
|     |          |            | Cable      | Connector  |         |
| 1   | AC Cable | 2.0        | Unshielded | Unshielded | 3 wires |

**SECTION 5: Other tests**

| Test                   | Span | RBW | VBW | Sweep | Detector | Trace | Instrument used   |
|------------------------|------|-----|-----|-------|----------|-------|-------------------|
| Frequency<br>Tolerance | -    | -   | -   | -     | -        | -     | Frequency counter |

Test data : APPENDIX  
Test result : Pass

## APPENDIX 1: Test data

### Frequency Tolerance

Test place                      Ise EMC Lab.  
Semi Anechoic Chamber      No.6  
Date                              March 14, 2025  
Temperature / Humidity        22 deg. C / 40 % RH  
Engineer                        Junki Nagatomi  
Mode                              Tx Mod. off

| Test condition |                    | Tested timing | Measured frequency [MHz] | Frequency error [MHz] | Result   |       | Limit |
|----------------|--------------------|---------------|--------------------------|-----------------------|----------|-------|-------|
| Temp. [deg. C] | Voltage [V]        |               |                          |                       | [%]      | [ppm] |       |
| 50             | 120                | Power on      | 13.559873                | -0.000127             | -0.00094 | -9.4  | 0.01  |
|                |                    | + 2 min.      | 13.559850                | -0.000150             | -0.00110 | -11.0 | 0.01  |
|                |                    | + 5 min.      | 13.559816                | -0.000184             | -0.00136 | -13.6 | 0.01  |
|                |                    | + 10 min.     | 13.559797                | -0.000203             | -0.00149 | -14.9 | 0.01  |
| 40             | 120                | Power on      | 13.559846                | -0.000154             | -0.00114 | -11.4 | 0.01  |
|                |                    | + 2 min.      | 13.559824                | -0.000176             | -0.00130 | -13.0 | 0.01  |
|                |                    | + 5 min.      | 13.559815                | -0.000185             | -0.00136 | -13.6 | 0.01  |
|                |                    | + 10 min.     | 13.559811                | -0.000190             | -0.00140 | -14.0 | 0.01  |
| 30             | 120                | Power on      | 13.559890                | -0.000110             | -0.00081 | -8.1  | 0.01  |
|                |                    | + 2 min.      | 13.559883                | -0.000117             | -0.00087 | -8.7  | 0.01  |
|                |                    | + 5 min.      | 13.559850                | -0.000150             | -0.00110 | -11.0 | 0.01  |
|                |                    | + 10 min.     | 13.559854                | -0.000146             | -0.00108 | -10.8 | 0.01  |
| 20             | 120                | Power on      | 13.559974                | -0.000026             | -0.00019 | -1.9  | 0.01  |
|                |                    | + 2 min.      | 13.559972                | -0.000028             | -0.00021 | -2.1  | 0.01  |
|                |                    | + 5 min.      | 13.559902                | -0.000098             | -0.00072 | -7.2  | 0.01  |
|                |                    | + 10 min.     | 13.559899                | -0.000101             | -0.00075 | -7.5  | 0.01  |
| 20             | 102<br>(120V -15%) | Power on      | 13.559837                | -0.000163             | -0.00120 | -12.0 | 0.01  |
|                |                    | + 2 min.      | 13.559918                | -0.000082             | -0.00061 | -6.1  | 0.01  |
|                |                    | + 5 min.      | 13.559915                | -0.000085             | -0.00063 | -6.3  | 0.01  |
|                |                    | + 10 min.     | 13.559906                | -0.000094             | -0.00069 | -6.9  | 0.01  |
| 20             | 138<br>(120V +15%) | Power on      | 13.559847                | -0.000153             | -0.00113 | -11.3 | 0.01  |
|                |                    | + 2 min.      | 13.559921                | -0.000079             | -0.00058 | -5.8  | 0.01  |
|                |                    | + 5 min.      | 13.559914                | -0.000086             | -0.00064 | -6.4  | 0.01  |
|                |                    | + 10 min.     | 13.559912                | -0.000089             | -0.00065 | -6.5  | 0.01  |
| 10             | 120                | Power on      | 13.560061                | 0.000061              | 0.00045  | 4.5   | 0.01  |
|                |                    | + 2 min.      | 13.560049                | 0.000049              | 0.00036  | 3.6   | 0.01  |
|                |                    | + 5 min.      | 13.560037                | 0.000037              | 0.00027  | 2.7   | 0.01  |
|                |                    | + 10 min.     | 13.560027                | 0.000027              | 0.00020  | 2.0   | 0.01  |
| 0              | 120                | Power on      | 13.560076                | 0.000076              | 0.00056  | 5.6   | 0.01  |
|                |                    | + 2 min.      | 13.560066                | 0.000066              | 0.00049  | 4.9   | 0.01  |
|                |                    | + 5 min.      | 13.560057                | 0.000057              | 0.00042  | 4.2   | 0.01  |
|                |                    | + 10 min.     | 13.560059                | 0.000059              | 0.00043  | 4.3   | 0.01  |
| -10            | 120                | Power on      | 13.560084                | 0.000084              | 0.00062  | 6.2   | 0.01  |
|                |                    | + 2 min.      | 13.560080                | 0.000080              | 0.00059  | 5.9   | 0.01  |
|                |                    | + 5 min.      | 13.560074                | 0.000073              | 0.00054  | 5.4   | 0.01  |
|                |                    | + 10 min.     | 13.560069                | 0.000069              | 0.00051  | 5.1   | 0.01  |
| -20            | 120                | Power on      | 13.560077                | 0.000077              | 0.00057  | 5.7   | 0.01  |
|                |                    | + 2 min.      | 13.560072                | 0.000072              | 0.00053  | 5.3   | 0.01  |
|                |                    | + 5 min.      | 13.560071                | 0.000071              | 0.00052  | 5.2   | 0.01  |
|                |                    | + 10 min.     | 13.560071                | 0.000070              | 0.00052  | 5.2   | 0.01  |

Calculation formula: Frequency error = Measured frequency - Tested frequency  
Result [%] = Frequency error / Tested frequency \* 100

Tested frequency: 13.56 MHz  
Limit (+/-): 0.01 % (+/- 100ppm)

\*The test was begun from 50 deg. C and the temperature was lowered each 10 deg. C.

## **APPENDIX 2: Test instruments**

### **Test Equipment**

| Test Item | LIMS ID | Description                         | Manufacturer            | Model  | Serial    | Last Calibration Date | Cal Int |
|-----------|---------|-------------------------------------|-------------------------|--------|-----------|-----------------------|---------|
| FT        | 244712  | Thermo-Hygrometer                   | HIOKI E. E. CORPORATION | LR5001 | 231202106 | 2025/01/19            | 12      |
| FT        | 141558  | Digital Tester(TRUE RMS MULTIMETER) | Fluke Corporation       | 115    | 17930030  | 2024/05/17            | 12      |
| FT        | 141429  | Temperature and Humidity Chamber    | Espec                   | PL-2KP | 14015723  | 2024/08/23            | 12      |
| FT        | 141498  | Microwave Counter                   | ADVANTEST               | R5373  | 120100309 | 2024/07/19            | 12      |
| FT        | 202512  | Loop Antenna                        | UL-ISE                  | -      | -         | -                     | -       |

\*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item:

FT: Frequency Tolerance